

**IN THE CLAIMS:**

Claim 1 (canceled).

Claim 2 (currently amended): A therapeutic composition containing substitution derivatives of N<sup>6</sup>-benzyladenosine, selected from the group comprising 6-(2-acetylbenzylamino)purine riboside, 6-(3-acetylbenzylamino)purine riboside, 6-(4-acetylbenzylamino)purine riboside, 6-(2-acetoxybenzylamino)purine riboside, 6-(3-acetoxybenzylamino)purine riboside, 6-(4-acetoxybenzylamino)purine riboside, 6-(2-sulphobenzylamino)purine riboside, 6-(3-sulphobenzylamino)purine riboside, 6-(4-sulphobenzylamino)purine riboside, 6-(4-methylaminobenzylamino)purine riboside, 6-(4-hexylbenzylamino)purine riboside, 6-(4-hexyloxybenzylamino)purine riboside, 6-(2-formylbenzylamino)purine riboside, 6-(3-formylbenzylamino)purine riboside, 6-(4-formylbenzylamino)purine riboside, 6-(2-ethoxybenzylamino)purine riboside, 6-(3-ethoxybenzylamino)purine riboside, 6-(4-ethoxybenzylamino)purine riboside, 6-(4-ethylbenzylamino)purine riboside, 6-(4-pentylbenzylamino)purine riboside, 6-(4-pentyloxybenzylamino)purine riboside, 6-(4-phenoxybenzylamino)purine riboside, 6-(4-phenylbenzylamino)purine riboside, 6-(4-propylbenzylamino)purine riboside, 6-(4-propyloxybenzylamino)purine riboside, 6-(4-octylbenzylamino)purine riboside, 6-(4-octyloxybenzylamino)purine riboside, 6-(4-ethoxybenzylamino)purine riboside, 6-(3,4-diacetoxybenzylamino)purine riboside, 6-(3,5-diacetoxymethylamino)purine riboside, 6-(2,5-diaminobenzylamino)purine riboside, 6-(3,5-dibromobenzylamino)purine riboside, 6-(3,5-dibromo-4-methoxybenzylamino)purine riboside, 6-(2,3,4,5-tetrafluorobenzylamino)purine riboside, 6-(2-chloro-3,6-difluorobenzylamino)purine riboside, 6-(5-chloro-2-

fluorobenzylamino)purine riboside, 6-(2,3,4-trifluorobenzylamino)purine riboside, 6-(2,3,5-trifluorobenzylamino)purine riboside, 6-(2,4,5-trifluorobenzylamino)purine riboside, 6-(3,4,5-trifluorobenzylamino)purine riboside, 6-(2,3,6-trifluorobenzylamino)purine riboside, 6-(3-chloro-2,6-difluorobenzylamino)purine riboside, 6-(2-chloro-6-fluorobenzylamino)purine riboside, 6-(2,6-difluorobenzylamino)purine riboside, 6-(2,4-difluorobenzylamino)purine riboside, 6-(3,4-difluorobenzylamino)purine riboside, 6-(2,5-difluorobenzylamino)purine riboside, 6-(3,5-difluorobenzylamino)purine riboside, 6-(5-fluoro-2-(trifluoromethyl)benzylamino)purine riboside, 6-(4-fluoro-2-(trifluoromethyl)benzylamino)purine riboside, 6-(2-chloro-5-(trifluoromethyl)benzylamino)purine riboside, 6-(2-(difluoromethoxy)benzylamino)purine riboside, 6-(3-(difluoromethoxy)benzylamino)purine riboside, 6-(4-(difluoromethoxy)benzylamino)purine riboside, 6-(2-fluoro-5-(trifluoromethyl)benzylamino)purine riboside, 6-(3-fluoro-4-(trifluoromethyl)benzylamino)purine riboside, 6-(2-fluoro-4-(trifluoromethyl)benzylamino)purine riboside, 6-(2-(trifluoromethylthio)benzylamino)purine riboside, 6-(2-fluoro-3-(trifluoromethyl)benzylamino)purine riboside, 6-(2-chloro-6-fluoro-3-methylbenzylamino)purine riboside, 6-(6-chloro-2-fluoro-3-methylbenzylamino)purine riboside, 6-(3-chloro-2-fluoro-5-(trifluoromethyl)benzylamino)purine riboside, 6-(3-chloro-2-fluoro-6-(trifluoromethyl)benzylamino)purine riboside, 6-(2,3-difluoro-4-methylbenzylamino)purine riboside, 6-(2,6-difluoro-3-methylbenzylamino)purine riboside, 6-(2-fluoro-6-(trifluoromethyl)benzylamino)purine riboside, 6-(3-chloro-2,6-difluorobenzylamino)purine riboside, 6-(3-(trifluoromethylthio)benzylamino)purine riboside, 6-(3-fluoro-4-methylbenzylamino)purine riboside, 6-(4-fluoro-3-methylbenzylamino)purine riboside, 6-(5-fluoro-



dimethoxybenzylamino)purine riboside, 6-(3-hydroxy-2,4-dimethoxybenzylamino)purine riboside, 6-(3-hydroxy-2,5-dimethoxybenzylamino)purine riboside, 6-(3-hydroxy-2,6-dimethoxybenzylamino)purine riboside, 6-(4-hydroxy-2,3-dimethoxybenzylamino)purine riboside, 6-(4-hydroxy-2,5-dimethoxybenzylamino)purine riboside, 6-(4-hydroxy-2,6-dimethoxybenzylamino)purine riboside, 6-(4-hydroxy-3,5-dimethoxybenzylamino)purine riboside, 6-(4-hydroxy-3,6-dimethoxybenzylamino)purine riboside, 6-(2,3-dihydroxy-4-methoxybenzylamino)purine riboside, 6-(2,3-dihydroxy-5-methoxybenzylamino)purine riboside, 6-(2,3-dihydroxy-6-methoxybenzylamino)purine riboside, 6-(2,4-dihydroxy-3-methoxybenzylamino)purine riboside, 6-(2,4-dihydroxy-5-methoxybenzylamino)purine riboside, 6-(2,4-dihydroxy-6-methoxybenzylamino)purine riboside, 6-(2,5-dihydroxy-3-methoxybenzylamino)purine riboside, 6-(2,5-dihydroxy-4-methoxybenzylamino)purine riboside, 6-(2,5-dihydroxy-6-methoxybenzylamino)purine riboside, 6-(2,6-dihydroxy-3-methoxybenzylamino)purine riboside, 6-(2,6-dihydroxy-4-methoxybenzylamino)purine riboside, 6-(2,6-dihydroxy-5-methoxybenzylamino)purine riboside, 6-(3,4-dihydroxy-2-methoxybenzylamino)purine riboside, 6-(3,4-dihydroxy-5-methoxybenzylamino)purine riboside, 6-(3,4-dihydroxy-6-methoxybenzylamino)purine riboside, 6-(3,5-dihydroxy-2-methoxybenzylamino)purine riboside, 6-(3,5-dihydroxy-4-methoxybenzylamino)purine riboside, 6-(3,5-dihydroxy-6-methoxybenzylamino)purine riboside, 6-(2-hydroxy-3,4,5-trimethoxybenzylamino)purine riboside, 6-(2-hydroxy-3,4,6-trimethoxybenzylamino)purine riboside, 6-(2-hydroxy-4,5,6-trimethoxybenzylamino)purine riboside, 6-(2,3,4-trihydroxybenzylamino)purine riboside, 6-(2,4,6-trihydroxybenzylamino)purine riboside, 6-(2,3,4-trihydroxybenzylamino)purine riboside, 6-(3,4,5-trihydroxybenzylamino)purine riboside, 6-(2,4,6-trihydroxybenzylamino)purine riboside, 6-(2-hydroxy-3-chlorobenzylamino)purine riboside, 6-(2-hydroxy-4-chlorobenzylamino)purine riboside, 6-

(2-hydroxy-5-chlorobenzylamino)purine riboside, 6-(2-hydroxy-6-chlorobenzylamino)purine riboside, 6-(2-hydroxy-3-iodobenzylamino)purine riboside, 6-(2-hydroxy-4-iodobenzylamino)purine riboside, 6-(2-hydroxy-5-iodobenzylamino)purine riboside, 6-(2-hydroxy-3-bromobenzylamino)purine riboside, 6-(2-hydroxy-4-bromobenzylamino)purine riboside, 6-(2-hydroxy-5-bromobenzylamino)purine riboside, 6-(2-hydroxy-6-bromobenzylamino)purine riboside, 6-(2-hydroxy-3-fluorobenzylamino)purine riboside, 6-(2-hydroxy-4-fluorobenzylamino)purine riboside, 6-(2-hydroxy-5-fluorobenzylamino)purine riboside, 6-(2-hydroxy-6-fluorobenzylamino)purine riboside, 6-(2-hydroxy-3-methylbenzylamino)purine riboside, 6-(2-hydroxy-4-methylbenzylamino)purine riboside, 6-(2-hydroxy-5-methylbenzylamino)purine riboside, 6-(2-hydroxy-6-methylbenzylamino)purine riboside, 6-(2,3-dihydroxy-4-chlorobenzylamino)purine riboside, 6-(2,3-dihydroxy-5-chlorobenzylamino)purine riboside, 6-(2,5-dihydroxy-4-chlorobenzylamino)purine riboside, 6-(2,6-dihydroxy-4-bromoxybenzylamino)purine riboside, 6-(2,6-dihydroxy-4-iodobenzylamino)purine riboside, 6-(2,6-dihydroxy-3-chlorobenzylamino)purine riboside, 6-(2,6-dihydroxy-3-bromobenzylamino)purine riboside, 6-(2,6-dihydroxy-3-iodobenzylamino)purine riboside, 6-(2,6-dihydroxy-3-fluorobenzylamino)purine riboside, 6-(2,6-dihydroxy-3,5-dichlorobenzylamino)purine riboside, 6-(2,6-dihydroxy-3,5-dibromobenzylamino)purine riboside, 6-(2,6-dihydroxy-3,5-diiodobenzylamino)purine riboside, 6-(2,6-dihydroxy-3,5-difluorobenzylamino)purine riboside, 6-(4,5-dimethoxy-2-nitrobenzylamino)purine riboside, 6-(3,4-dimethylbenzylamino)purine riboside, 6-(2,3-dimethylbenzylamino)purine riboside, 6-(2,4-dimethylbenzylamino)purine riboside, 6-(2,6-dimethylbenzylamino)purine riboside, 6-(2,6-dimethyl-4-hydroxybenzylamino)purine riboside, 6-(3,5-dimethyl-4-

hydroxybenzylamino)purine riboside, 6-(2-fluoro-4-hydroxybenzylamino)purine riboside, 6-(3-fluoro-4-methylbenzylamino)purine riboside, 6-(3,4-dinitrobenzylamino)purine riboside, 6-(3,5-dinitrobenzylamino)purine riboside, 6-(3,4-diido-4-hydroxybenzylamino)purine riboside, 6-(2-chloro-3,4-dimethoxybenzylamino)purine riboside, 6-(4-chloro-3,5-dinitrobenzylamino)purine riboside, 6-(2-chloro-4-fluorobenzylamino)purine riboside, 6-(3-chloro-4-fluorobenzylamino)purine riboside, 6-(2-chloro-6-methylbenzylamino)purine riboside, 6-(3-chloro-2-methylbenzylamino)purine riboside, 6-(3-chloro-4-methylbenzylamino)purine riboside, 6-(5-chloro-2-methoxybenzylamino)purine riboside, 6-(2-chloro-4-fluorobenzylamino)purine riboside, 6-(4-chloromethylbenzylamino)purine riboside, 6-(3-bromo-4-hydroxybenzylamino)purine riboside, 6-(3,5-dibromo-4-hydroxybenzylamino)purine, 6-(3-bromo-4-methoxybenzylamino)purine, 6-(4-bromomethylbenzylamino)purine riboside, 6-(4-butoxybenzylamino)purine riboside, 6-(4-t-butyl-2,6-dimethylbenzylamino)purine riboside, 6-(2-aminobenzylamino)purine riboside, 6-(3-aminobenzylamino)purine riboside, 6-(4-aminobenzylamino)purine riboside, 6-(2-amino-3-chlorobenzylamino)purine riboside, 6-(2-amino-4-chlorobenzylamino)purine riboside, 6-(2-amino-5-chlorobenzylamino)purine riboside, 6-(2-amino-6-chlorobenzylamino)purine riboside, 6-(3-amino-2-chlorobenzylamino)purine riboside, 6-(3-amino-4-chlorobenzylamino)purine riboside, 6-(3-amino-5-chlorobenzylamino)purine riboside, 6-(3-amino-6-chlorobenzylamino)purine riboside, 6-(2,6-diamino-3-chlorobenzylamino)purine riboside, 6-(2,6-diamino-4-chlorobenzylamino)purine riboside, 6-(4-amino-3-chlorobenzylamino)purine riboside, 6-(4-amino-5-dichlorobenzylamino)purine riboside, 6-(5-amino-2-methylbenzylamino)purine riboside, 6-(2-amino-3-nitrobenzylamino)purine riboside, 6-(4-amino-3-nitrobenzylamino)purine riboside, 6-(4-benzyloxybenzylamino)purine

riboside, 6-(3-acetylbenzylamino)purine riboside, 6-(2-acetylbenzylamino)purine riboside, 6-(2,4,5-trichlorobenzylamino)purine riboside, 6-(2,4,5-trichlorobenzylamino)purine riboside, 6-(2,4,6-trichlorobenzylamino)purine riboside, 6-(2,3,4-trichlorobenzylamino)purine riboside, 6-(2,3,5-trichlorobenzylamino)purine riboside, 6-(2,3,6-trichlorobenzylamino)purine riboside, 6-(2,5,6-trichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-acetylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-acetylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-carboxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-carboxybenzylamino)purine riboside, 6-(2-acetoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-acetoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-acetoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-

nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-sulphobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-sulphobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-sulphobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-cyanobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-cyanobenzylamino)purine riboside, 6-(4-cyanobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(5-nitro-2-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-methylaminobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hexylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hexyloxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-formylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-formylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-formylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-ethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-ethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-ethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-

ethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-pentylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-pentyloxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-phenoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-phenylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-propylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-propyloxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-oktylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-octyloxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-ethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-diacetoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-diacetoxybenzylamino)purine riboside, 6-(2,5-diaminobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dibromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dibromo-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,4,5-tetrafluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-3,6-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(5-chloro-2-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,4-trifluorobenzylamino)purine riboside, 2-(methyl or

methylmercapto)-6-(2,3,5-trifluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,5-trifluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4,5-trifluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,6-trifluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-chloro-2,6-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-6-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(5-fluoro-2-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-fluoro-2-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-5-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-(difluoromethoxy)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-(difluoromethoxy)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-(difluoromethoxy)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-fluoro-5-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-fluoro-4-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-fluoro-4-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-(trifluoromethylthio)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-fluoro-3-(trifluoromethyl)benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-6-fluoro-3-methylbenzylamino)purine purine riboside, 2-(methyl or methylmercapto)-6-(6-chloro-2-fluoro-3-methylbenzylamino)purine riboside, 2-



diethylaminobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-ethylenedioxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dihydroxybenzylamino)purine, 2-(methyl or methylmercapto)-6-(2,5-dihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-2-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-2-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-3-

methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3,4-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-4,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-4,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-2,4-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-2,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-hydroxy-2,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-2,3-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-2,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-2,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-3,5-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-hydroxy-3,6-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dihydroxy-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dihydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dihydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dihydroxy-3-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dihydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dihydroxy-6-

methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-dihydroxy-3-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-dihydroxy-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-dihydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dihydroxy-2-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dihydroxy-5-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dihydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dihydroxy-2-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dihydroxy-4-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dihydroxy-6-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,4-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,5-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,6-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4,5-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3,4,5-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3,4,6-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4,5,6-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,6-trimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,4-trihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,6-trihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,4-trihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4,5-

trihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,6-trihydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-6-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-6-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-6-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-3-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-6-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-4-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-5-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-hydroxy-6-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dihydroxy-4-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dihydroxy-5-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,5-dihydroxy-4-

chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-4-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-4-bromoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-4-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3-bromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3-iodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3,5-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3,5-dibromobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3,5-diiodobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dihydroxy-3,5-difluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4,5-dimethoxy-2-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dimethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3-dimethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4-dimethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dimethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-dimethyl-4-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dimethyl-4-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-fluoro-4-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-fluoro-4-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-dinitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dinitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-methyl-5-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-methyl-4-

nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,4-diido-4-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-3,4-dimethoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-chloro-3,5-dinitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-4-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-chloro-4-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-6-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-chloro-2-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-chloro-4-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(5-chloro-2-methoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-4-fluorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-chloromethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-5-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-chloro-6-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-chloro-3-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(5-chloro-2-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-bromo-4-hydroxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3,5-dibromo-4-hydroxybenzylamino)purine, 2-(methyl or methylmercapto)-6-(3-bromo-4-methoxybenzylamino)purine, 2-(methyl or methylmercapto)-6-(4-bromomethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-butoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-butoxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-t-butyl/benzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-t-butyl-2,6-dimethylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-

aminobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-aminobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-aminobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-amino-3-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-amino-4-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-amino-5-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-amino-6-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-amino-2-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-amino-4-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-amino-5-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-amino-6-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-diamino-3-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,6-diamino-4-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-amino-3-chlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-amino-5-dichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(5-amino-2-methylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-amino-3-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-amino-3-nitrobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(4-benzyloxybenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(3-acetylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2-acetylbenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,5-trichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,5-trichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,4,6-trichlorobenzylamino)purine riboside, 2-(methyl or methylmercapto)-6-(2,3,4-

trichlorobenzylamino)purine riboside, 6-(2,3,5-trichlorobenzylamino)purine riboside, 2-(amino; methyl or methylmercapto)-6-(2,3,6-trichlorobenzylamino)purine riboside or 2-(amino; methyl or methylmercapto)-6-(2,5,6-trichlorobenzylamino)purine riboside, and their pharmaceutically acceptable salts with alkali metals, ammonium or amines, in the form of racemates or optically active isomers, as well as their addition salts with acids.

Claims 3-14 (canceled).

Claim 15 (previously presented): A pharmaceutical composition, containing a substitution derivative of N6-benzyladenosine according to claim 2, or its pharmaceutically acceptable salt, including a pharmaceutical carrier.

Claim 16 (previously presented): A cosmetic composition, containing a substitution derivative of N6-benzyladenosine according to claim 2, or its pharmaceutically acceptable salt, including a pharmaceutical carrier.

Claim 17 (previously presented): A pharmaceutical composition containing a compound according to claim 2, including a pharmaceutical carrier, suitable as mitotic or antimitotic compound.

Claims 18-21 (canceled).

Claim 22 (withdrawn): A method of treatment, wherein the pharmaceutical composition of claim 17 is used to treat a condition selected from the group consisting of

cancer, psoriasis, rheumatoid arthritis, lupus, type I diabetes, multiple sclerosis, restenosis, polycystic kidney disease, graft rejection, graft-versus-host-disease, gout, parasitosis, and Alzheimer's disease, immunostimulation-related condition, and neurogenerative disease.